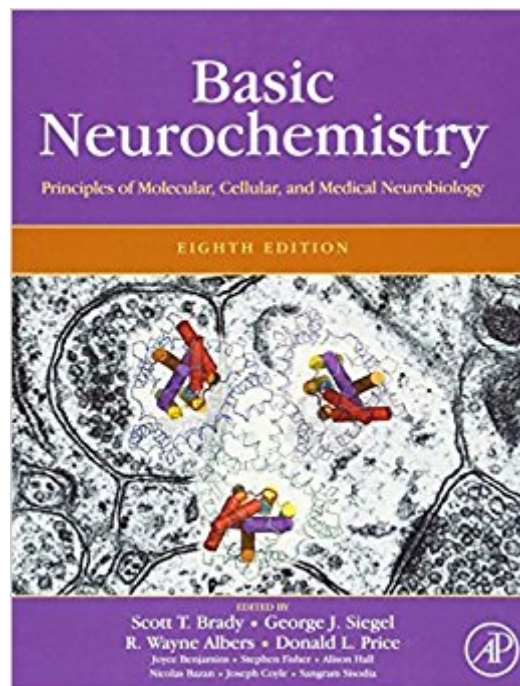




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# Basic Neurochemistry, Eighth Edition: Principles Of Molecular, Cellular, And Medical Neurobiology



## Synopsis

Basic Neurochemistry, Eighth Edition, is the updated version of the outstanding and comprehensive classic text on neurochemistry. For more than forty years, this text has been the worldwide standard for information on the biochemistry of the nervous system, serving as a resource for postgraduate trainees and teachers in neurology, psychiatry, and basic neuroscience, as well as for medical, graduate, and postgraduate students and instructors in the neurosciences. The text has evolved, as intended, with the science. This new edition continues to cover the basics of neurochemistry as in the earlier editions, along with expanded and additional coverage of new research from intracellular trafficking, stem cells, adult neurogenesis, regeneration, and lipid messengers. It contains expanded coverage of all major neurodegenerative and psychiatric disorders, including the neurochemistry of addiction, pain, and hearing and balance; the neurobiology of learning and memory; sleep; myelin structure, development, and disease; autism; and neuroimmunology. Completely updated text with new authors and material, and many entirely new chapters. Over 400 fully revised figures in splendid color. 61 chapters covering the range of cellular, molecular and medical neuroscience. Translational science boxes emphasizing the connections between basic and clinical neuroscience. Companion website at <http://elsevierdirect.com/companions/9780123749475>

## Book Information

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## Customer Reviews

Basic Neurochemistry: Principles of Molecular, Cellular, and Medical Neurobiology, the outstanding and comprehensive classic text on neurochemistry, is now newly updated and revised in its Eighth Edition. For more than forty years, this text has been the worldwide standard for information on the biochemistry of the nervous system, serving as a resource for postgraduate trainees and teachers in neurology, psychiatry, and basic neuroscience, as well as for medical, graduate, and postgraduate students and instructors in the neurosciences. The text has evolved, as intended, with the science. It is also an excellent source of current information on basic biochemical and cellular processes in brain function and neurological diseases for continuing medical education and qualifying examinations. This text continues to be the standard reference and textbook for exploring the translational nature of neuroscience, bringing basic and clinical neuroscience together in one authoritative volume. Our book title reflects the expanded attention to these links between neurochemistry and neurologic disease. This new edition continues to cover the basics of neurochemistry as in the earlier editions, along with expanded and additional coverage of new research from: • Intracellular trafficking; • Stem cells, adult neurogenesis, regeneration; • Lipid messengers; • Expanded coverage of all major neurodegenerative and psychiatric disorders; • Neurochemistry of addiction; • Neurochemistry of pain; • Neurochemistry of hearing and balance; • Neurobiology of learning and memory; • Sleep; • Myelin structure, development, and disease; • Autism; and • Neuroimmunology

OBITUARY FOR R. WAYNE ALBERS, August 5, 1928 - September 28, 2013 R. Wayne Albers, Ph.D., Scientist Emeritus, Chief of Section on Enzyme Chemistry (retired), Laboratory of Neurochemistry in the NINDS, NIH, Bethesda, MD, is a world-recognized neuroscientist most noted for his research in the field of membrane cation transport and neuronal excitability in the nervous system. Dr. Albers and physiologist R.L. Post performed the principal experiments leading to their now widely-held Albers-Post model for the mechanism of the cation transport enzyme, sodium-potassium-activated ATPase. Dr. Albers was one of the founding co-editors of the comprehensive text, Basic Neurochemistry: Molecular, Cellular and Medical Aspects, first published in 1972, continuing as co-editor for 8 editions, the latest having been published in 2012. After receiving his PhD at Washington University School of Medicine in 1954, Dr. Albers embarked on a distinguished career of research at the NIH, being a founding investigator in the first Laboratory of Neurochemistry. Dr. Albers was one of the first members of the American Society for Neurochemistry at its inception, serving on its Council and its Committees on Publications and

Education and on Electronic Publications. He has served as Professor of Biochemistry at George Washington University, Faculty Member of the NIH Foundation for Advanced Education in the Sciences, Associate Editor of the Journal of Neurochemistry and of Experimental Neurology, and on the editorial boards of several journals. Dr. Albers passed away on September 28, 2013. He was 85 years old and is survived by his former wife, Frances Albers, their children Gail Morrell, Belinda Caron and Patricia Steinhoff, 6 grandchildren, and 8 great-grandchildren. He also had a son, the late Jonathan Albers. Dr. Albers was considered a gentleman, an excellent scientific colleague with a keen intellect and friend by all who worked with him. He will be sorely missed, not only by his family, but also by the entire neurochemistry community. George J. Siegel October 1, 2013

I'm a clinician but still retain my fascination for basic sciences and advances. I find this book to be a great review of ever-expanding concepts and clarifications of what we know and once knew. Great improvement from last edition with on-line link to slides and pictures for teaching and presentations. I hope the future reviews will continue to expand on clinical-correlates (though this is as the name implies not really a primary medical book) of basic sciences and translational research and applications. Though it lacks in detail in several areas the bibliographies/reference page at the end of the the chapters were/are helpful in leading to further reading. Ofcourse when one gains more knowledge in individual chapters-like neurochemicals/transmitters the material here does seem very basic. However in keeping in perspective the amount of research and data behind each chapter, one has to realize that a whole book can be written on each chapter in the book. Thus this may not be all encompassing but definitely a great book to have and channel into more (guided) detail from.

This rapidly maturing field is well addressed through the eighth edition of this textbook. The text is presented well, with multiple illustrations, and in the extensive detail necessary for both the graduate level student and the more advanced scientist. I highly recommend it. That said, I have some concerns with the chapter on addiction. The author introduces the topic by stating that vulnerability to relapse can persist after years of abstinence (true) and that this suggests that long-lasting and perhaps permanent neurobiologic changes underlie addiction. It might, however, suggest what is generally believed by addiction experts - that a specific neurobiologic condition is present prior to the use of addicting substances, and that this condition is what causes the vulnerability in the first place. The text also notes that long-term drug exposure produces changes that contribute to addiction. This has been well demonstrated, but even single uses of substances also produce significant and identifiable changes; such evidence was detailed as early as the 1960s with alcohol.

The author confuses tolerance, physiologic dependence, and sensitization, all present in ANY use of addictive substances, with specific findings present in addictive disease. The chapter on addiction also contains a sidebar referencing the use of opioid receptor antagonists as being useful in alcoholism, something dismissed by most clinicians due to a paucity of evidence demonstrating any such value. The chapter, ultimately, presents an excellent overview of the neuroscience, but may lead to some mistaken beliefs on the part of readers as to the medical issues present. While this causes me some concern with respect to recommending the text, the majority of readers will use the text for its presentation of the basic science and will likely turn elsewhere for interpretation as to the application and interpretation of such material.

I am currently doing honours in neuroscience and I look up information in this book on a regular basis it has good subheadings making it easy to read, multiple diagrams in each chapter and references at the end of each chapter. Particularly good for myelination (my honours project). But no real glossary just the abbreviations

As an undergrad, I found the material in this book challenging (in a good way) and well written. I only cried twice, and for an upper level science course that's pretty good.

Kindle version is just OK... It's like looking at the "Word Document Format" of a text book rather than the PDF version. If you've got the time, buy a used hard copy instead. Content of the text though is fine, not great, but fine.

The topics are explained clearly and concisely. Well worth the money.

This is a really great book. It was in very good condition without any notes or markings. Excellent price and rapid shipment.

There are two things about this book to write for me. First of all this book contains detailed information about topics (although its name basic, i think it is not basic). Secondly design of pages are very well desinged and very easy to read. I read 7th edition of this book and i can say that this edition is very different for me and i recommend this book for every neuroscientist.

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